Table 1.--Stratigraphic and hydrologic units in the Moab-Monticello area

[Based in part on Hite and Lohman (1973), Andrews and Hunt (1956), Sanborn (1958), Hintze and Stokes (1964), Hanshaw and Hill (1969), Hinrichs, Krummel, Connor, and Moore (1971)]

System	Series.		Stratigraphic Unit		Thickness (Meters)	Lithologic Characteristics	Principal Water-bearing Characteristics	Hydrologic Unit	Aquif Syst
Quaternary	Holocene and Pleistocene	Alluvium			0-110+	Alluviumsilt, sand, and gravel	Compose the principal water-bear- ing material and source of ground water in the larger valleys	Alluvial aquifer	
Tertiary	Pliocene (?) and Miocene (?)	Intrusive laccoliths, stocks dikes, and sills				Igneous rocks; mostly diorite, monzonite and syenite porphyry	Precipitation may enter these rocks where they are intensely fractured and subsequently recharge adjacent permeable sedimentary rocks	Tertiary aquifer	
Cretaceous  Jurassic  Triassic (?)	Upper Cretaceous		Mancos Shale		0-30+	Dark-grey fissile marine shale	Not water bearing	Cretaceous confining beds	
		Dakota Sandstone		24-61	Interbedded sandstone and conglomerate, carbonaceous shale, and impure coal Unconformity	Yields water to numerous, small freshwater springs, particularly those high on the flanks of the La			
	Lower Cretaceous	Burro Canyon Formation			15-76	Sandstone and conglomerate, green and reddish-purple shale		Sal and Abajo Mountains	10
	Upper Jurassic Upper Triassic (?)	Morrison	Brushy Basin Member		61-134	Variegated bentonitic mudstone, silt- stone, red sandstone, and conglomerate, thin limestone beds	Not water bearing		
		Formation	Salt Wash Member		15-152	Lenticular sandstone, mudstone, few thin limestones	Sandstones yield small supplies of water locally		
		San Rafael Group	Summerville Format:	Lon	6-61	Thin-bedded sandstone, sandy shale, and mudstone	Not water bearing	Mesozoic sandstone aquifer	
			Entrada Sandstone	Moab Member	15-55	White cross-bedded fine grained sand- stone	Yield small supplies of water		
				Slick Rock Member	73-110	Cross-bedded buff, orange, and white fine-grained sandstone	where fractured		
				Dewey Bridge Member	18-55	Red earthy sandstone and siltstone. Contorted bedding. Called Carmel Formation in old reports	Yields little or no water		
		Glen	Navajo Sandstone		46-122	Buff and gray cross-bedded fine-grained sandstone	Yields small to moderate supplies of water where fractured		
		Canyon	Kayenta Formation		43-79	Lenticular channel sandstone, siltstone, and mudstone			
	Upper Triassic	Group	Wingate Sandstone		46-107	Fine-grained reddish-brown, thick-bedded, massive and cross-bedded cliff forming sandstone	Yields small supplies of water where fractured		
			Chinle Formation		30-134		Not water-bearing		
	Middle (?) and Lower Triassic	Moenkopi Formation		0-143	Brown shale, mudstone, arkosic sandstone and conglomerate. Thin beds of gypsum locally near base		KARA		
Permian	Lower Permian		Cutler	Arkosic Member	114-183		Yields small supplies of water where fractured	Mesozoic-upper Paleozoic confining beds	
			Formation	Cedar Mesa Sandstone Member	0-365	Pale-orange and yellowish-gray fine- grained, calcareous sandstone			
Pennsy Ivanian	Upper and Middle Pennsylvanian	Rico Formation		IMember	61-175	of marine limestone	Yield not well known, but probably very small		
				Upper member (Honaker Trail Formation, Hermosa Group, of		Fossiliferous gray limestone, some shale and lenticular sandstones			
	Middle Pennsylvanian	Formation	Wengerd and Matheny, 1958)  Paradox Member  Lower member (Pinkerton Trail  Formation, Hermosa Group, of  Wengerd and Strickland, 1954)		0-4,265		Rarely transmits water; interbeds locally contain gas, oil, salt water Yields little or no water	Salt confining	beds
	remsyivanian				0-61			Upper Paleozoic confining beds	
	Lower Pennsylvanian	Molas Formation		0-61	Interbedded red siltstone, sandstone, limestone, and shale		11 8		
ississippian		Leadville Limestone equivalent		76-213	Unconformity Dolomite and limestone	7.5 LIBERT SET		ша	
Devonian	Upper Dévonian	1	Ouray Formation		0-61	Limestone and shale	Transmit salt water through fractures, karst zones, and dolomitized intervals. Leadville Formation equivalent is the most permeable of the group	Lower Paleozoic aquifer	syst
		P. K.	Elbert Formation  McCracken Sandstone  Member equivalent		30-76	Dolomite and limestone			ter
	5. 9.	C US			15	Sandstone, limestone, and dolomite			d-wa
Cambrian	Upper	(F- 7 - 1			122-183	Dolcmite Unconformity	permeable of the group		round-
Camor Adit	Cambrian	1 75	Ignacio Quartzite equivalent		152-274	Sandstone, siltstone, and shale		Lower Paleozoic	r g
roterozoic	Undifferentiated					and Proterozoic confining beds	Lowe		